

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/013688

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K5/08 C07K5/10 C07K7/06 A61K38/04 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, EMBASE, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SCHMIDT U ET AL: "Amino acids and peptides. 84. Synthesis of biologically active cyclopeptides. 24. Total synthesis of the biphenomycins. III. Synthesis of biphenomycin B" SYNTHESIS, GEORG THIEME VERLAG. STUTTGART, DE, no. 10, October 1992 (1992-10), pages 1025-1030, XP001155274 ISSN: 0039-7881 cited in the application page 1025, left-hand column, line 1 - line 11; compound 1B ----- -/--	1,2,7-12

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

14 January 2005

Date of mailing of the international search report

21/01/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KRENITSKY P J ET AL: "Synthesis of the (S,S,S)-diastereomer of the 15-membered biaryl ring system of RP 66453" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 44, no. 21, 19 May 2003 (2003-05-19), pages 4019-4022, XP004423025 ISSN: 0040-4039 Seite 4021, Reaktionsschema 3 compound 1	1-12
X	Seite 4019, rechte Spalte: Verbindung Biphenomycin C	1,2
P,X	----- WO 03/106480 A (BAYER HEALTHCARE AG ; CANCHO-GRANDE YOLANDA (DE); RADDATZ SIEGFRIED (D) 24 December 2003 (2003-12-24) the whole document	1,2,4-12
A	----- SCHMIDT U ET AL: "Amino acids and peptides. 88. Synthesis of biologically active cyclopeptides. 26. Total synthesis of the biphenomycins. V. Synthesis of biphenomycin A" SYNTHESIS, GEORG THIEME VERLAG. STUTTGART, DE, no. 12, December 1992 (1992-12), pages 1248-1254, XP001155271 ISSN: 0039-7881 cited in the application the whole document	1-12
A	----- CHANG C C ET AL: "LL-AF283 antibiotics, cyclic biphenyl peptides" JOURNAL OF ANTIBIOTICS, JAPAN ANTIBIOTICS RESEARCH ASSOCIATION. TOKYO, JP, vol. 44, no. 6, June 1991 (1991-06), pages 674-677, XP009018534 ISSN: 0021-8820 the whole document	1-12

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 12 relates to a method for treatment of the human or animal body, the search was carried out and was based on the stated effects of the compound or composition.
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

### Information on patent family members

12/EP2004/013688

Form PCT/ISA/210 (patent family annex) (January 2004)